INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2005/001222

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F16L1/024 F16L1/12 F16L3/00 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) F16L IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to daim No. Citation of document, with indication, where appropriate, of the relevant passages Category * US 4 147 455 A (BERTACCINI GIANPAOLO) 1,2,5,6, X 8,10,11 3 April 1979 (1979-04-03) 3,9, column 1, line 63 - column 2, line 38; 12-16 figures 1,2 US 2 405 819 A (DUSTMAN HERMAN U) 1,2,8,11 X 13 August 1946 (1946-08-13) figure 2 12, 15, 16 Υ US 4 265 566 A (SCODINO AMBROGIO) 5 May 1981 (1981-05-05) column 3, line 30 - column 4, line 34; figures 3,4 US 4 929 124 A (LOCKWOOD GEORGE S) 3,9,13, Υ 29 May 1990 (1990-05-29) figures 2a,2b,3 -/--Patent family members are listed in annex. Further documents are listed in the continuation of box C. . Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but clied to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "X" document of particular relevance; the claimed Invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "E" earlier document but published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of malling of the international search report Date of the actual completion of the international search 21/04/2005 13 April 2005 Authorized officer Name and mailing address of the ISA

Form PCT/ISA/210 (second sheet) (January 2004)

1

European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Mauriès, L

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/001222

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
A	SU 555 253 A (GALI-I GALIULLIN V F) 25 April 1977 (1977-04-25) figure 1	1,11	
	<u></u>		
		•	
].	
		·	
	·		
•			
	·		

1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/EP2005/001222

	ent document In search report		Publication date		Patent family member(s)	Publication date
IIS	4147455		03-04-1979	IT.	1078683 B	08-05-1985
-		,.	30 0. 23/3	ĀÙ	511844 B2	11-09-1980
				AU	3232078 A	19-07-1979
				BE	863039 A1	18-07-1978
				BR	7800345 A	05-09-1978
				CA	1086288 A1	23-09-1980
				DE	2802111 A1	20-07-1978
				DK	15878 A ,B,	19-07-1978
				DK	376981 A ,B,	25-08-1981
				FR	2377567 A1	11-08-1978
				GB	1564493 A	10-04-1980
				IE	46029 B1	26-01-1983
				JP	53090017 A	08-08-1978
				LU	78875 A1	09-06-1978
				NL	7800626 A ,B,	20-07-1978
					7600020 A ,B,	
US	2405819	Α	13-08-1946	NONE		
US	4265566	A	05-05-1981	IT	1097789 B	31-08-1985
				AR	223483 A1	31-08-1981
				ΑU	522881 B2	01-07-1982
				ΑU	4484679 A	31-01-1980
				ΒE	875104 A1	26-09-1979
	•		•	BR	7903846 A	15-04-1980
				CA	1103468 A1	23-06-1981
				DE	2912781 A1	07-02-1980
				DK	95079 A ,B,	29-01-1980
				ES	479941 A1	16-01-1980
				FR	2432127 A1	22-02-1980
				GB	2027156 A ,B	13-02-1980
				ΙE	48019 B1	05-09-1984
				JP	55020976 A	14-02-1980
				JP	63052274 B	18-10-1988
				NL	7902155 A	30-01-1980
				NO	790915 A ,B,	29-01-1980
			•	NZ	189828 A	31-05-1983
		•		PT	69401 A	01-04-1979
115	4929124	A	29-05-1990	EP	0527721 A1	24-02-1993
55		• •	. 25 55 255	WO	9115697 A1	17-10-1991
	555253	Α	25-04-1977	SU	555253 A1	25-04-1977